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- (71) Applicant (for all designated States except US): SETRATECH S.A.R.L. [FR/FR]; 31, rue de la Liberté, F-75019 Paris (FR).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BORTS, Rhona, Harriet [US/GB]; 4 Eynsham Road, Sutton nr. Witney, Oxfordshire OX8 1RZ (GB). LOUIS, Edward, John [US/GB]; 4 Eynsham Road, Sutton nr. Witney, Oxfordshire OX8 1RZ (GB).
- (74) Agent: PENNANT, Pycrs; Stevens Hewlett & Perkins, 1 Serjeants' Inn, Fleet Street, London EC4Y 1LL (GB).

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(54) Title: MEIOTIC RECOMBINATION IN VIVO OF PARTIALLY HOMOLOGOUS DNA SEQUENCES

(57) Abstract

Process for the meiotic recombination in vivo of partially homologous DNA sequences having up to 30 % of base mismatches, wherein eukaryotic cells containing the sequences and in which an enzymatic mismatch repair system is defective, are maintained under conditions to effect meiosis. Preferably the enzymatic mismatch repair systems of the eukaryotic cells are defective by virtue of at least one mutS protein and/or at least one muil protein being defective or missing. The cukaryotic cells may be unicellular organisms such as yeasts.

